

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Young Chan KO  
Sheng-Hsin HU  
Kambiz B. MAKOUI

# 6  
5-13-02

Serial No.: 10/025,213

Filing Date: 18 December 2001

Title: WOOD PULP FIBER MORPHOLOGY  
MODIFICATIONS THROUGH THERMAL  
DRYING

THIRD INFORMATION DISCLOSURE STATEMENT  
**RECEIVED**

Assistant Commissioner for Patents  
Washington, D.C. 20231

APR 25 2002

TC 1700

Dear Sir:

In accordance with Rules 1.56 and 1.98, the references listed on Form PTO-1449 are hereby brought to the attention of the Examiner as being possibly material to examination of the subject patent application.

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I hereby certify that this correspondence (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on

April 19, 2002

4/19/02

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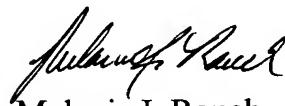
Alemany & Ranch

Signature

Serial No.: 10/025,213

Form PTO-1449 (4 pages) is enclosed with a copy of each and every reference cited on Form PTO-1449.

Respectfully submitted,

  
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FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. KCC-2119	SERIAL NO. 10/025,213
<b>LIST OF PRIOR ART CITED BY APPLICANT</b> (Use several sheets if necessary)		APPLICANT(S) Young Chan KO et al.		
		FILING DATE 18 December 2001	GROUP	



## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES
	AL						
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	AN						
	AO						
	AP						

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR		A.M. Scallan, <i>The Structure of the Cell Wall of Wood - A Consequence of Anisotropic Inter-Microfibrillar Bonding?</i> , Wood Science, Vol. 6, No. 3, p. 266, 267, 269 & 271 (January 1974).
AS		Alfred J. Stamm and William E. Smith, <i>Laminar Sorption and Swelling Theory for Wood and Cellulose</i> , Wood Science and Technology, Vol. 3, p. 301-323 (1969).
AT		A. J. Kerr and D. A. I. Goring, <i>The Ultrastructural Arrangement of the Wood Cell Wall</i> , Cellulose Chem. Technol., 9, p. 563-573 (1975).

EXAMINER	DATE CONSIDERED
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

USCOMM-DC 80-3985

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	AM							
	AN							
	AO							
	AP							

**OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)**

	AR	G. Graham Allan and Young C. Ko, <i>The Microporosity of Pulp. The Forces Influencing the Intra and Inter-Fiber Pore Structure and Pore Size Distribution in Pulp and Paper</i> , Cellulose Chem. Technol., 29, p. 479-485 (1995).
	AS	D. A. I. Goring, R. Vuong, C. Gancet and H. Chanzy, <i>The Flatness of Lignosulfonate Macromolecules as Demonstrated by Electron Microscopy</i> , Journal of Applied Polymer Science, Vol. 24, p. 931-936 (1979).
	AT	B. D. Favis and D.A.I. Goring, <i>A Model for the Leaching of Lignin Macromolecules from Pulp Fibers</i> , Journal of Pulp and Paper Science, p. 139-143 (September 1984).

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AR		D. A. I. Goring, <i>A Speculative Picture of the Delignification Process</i> , Cellulose Chemistry and Technology, p. 273-277.					
AS		J. E. Stone and A. M. Scallan, <i>A Study of Cell Wall Structure by Nitrogen Adsorption</i> , Pulp Paper Magazine, Canada, T407 (1965).					
AT		Leonard Haas, <i>Iggesund Pioneers Flash Drying of Fully Bleached Kraft Pulp</i> , Progress in Pulping (4 pages) (1971).					

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	AR		H-E. Engström, O. B. Hovstad and L. Ivnäs, <i>Flash Drying System for Pulp-Design Factors</i> , reprinted from <i>Pulp and Paper</i> , Part 1, (4 pages) August 21 and August 28 (1967).				
	AS		H-E. Engström, O. B. Hovstad and L. Ivnäs, <i>Flash Dried Pulp-Some Revealing Facts on Strength and Beating Properties</i> , reprinted from <i>Pulp and Paper</i> , Part 2, (4 pages) (1967).				
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